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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,760	02/06/2004	Yoshinori Nakagawa	UNIUS-203.1-CIP-US (10401	5583
	7590 03/27/2007 & JAWORSKI, LLP	•	EXAMINER	
666 FIFTH AV	E		SPISICH, MARK	
NEW YORK, NY 10103-3198			ART UNIT	PAPER NUMBER
			1744	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	·	Application No.	Applicant(s)					
·		10/773,760	NAKAGAWA ET A	AL.				
	Office Action Summary	Examiner	Art Unit	· · · · · · · · · · · · · · · · · · ·				
		Mark Spisich	1744					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAY INSIGNS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period verse to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMU 36(a). In no event, however, ma vill apply and will expire SIX (6) I , cause the application to becom	INICATION. y a reply be timely filed MONTHS from the mailing date of this core as ABANDONED (35 U.S.C. § 133).					
Status								
1)🖂	Responsive to communication(s) filed on 22 Ja	anuary 2007.						
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) Claim(s) <u>5-8</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.							
· —	Claim(s) is/are allowed. Claim(s) <u>5-8</u> is/are rejected.			•				
·	Claim(s) is/are rojected to.							
•	Claim(s) are subject to restriction and/o	r election requirement.						
Amuliaati	an Danara							
	on Papers	_	•					
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
		•						
Attachmen	t(s)							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		ew Summary (PTO-413) No(s)/Mail Date					
3) 🔯 Inform	mation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice	of Informal Patent Application					
Pape	r No(s)/Mail Date <u>3/2007</u> .	6) Other:	·					

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DETAILED ACTION

Information Disclosure Statement

Receipt is acknowledges of an IDS filed 8 March 2007. Note that the list provided cited the document 3-191905 twice (the second of which was crossed-through). In addition, all non-English language documents must be accompanied by a statement of relevance. 62-211006 and 57-196431 do not include any statement of relevance and 61-73649 was accompanied by an abstract that clearly is not associated therewith (one is some type of brush while the abstract is for a diesel filter; also, the publication of the full document (1986) does not match that of the provided abstract (1994)).

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over CA 1,285,110 ('110) in view of Sakuma et al (USP 4,691,718) and Suyama (USP 4,944,296). '110 discloses an electronic toothbrush comprising a brush head portion (1) having a bristle portion (1a), holder portion (2), n-type semiconductor (4) (page 10, line 11) as well as a batter (5) (page 10, lines 25-26) electrically connected to the n-type semiconductor. '110 discloses the invention substantially as claimed with the exception of the solar battery and the number of volts. These "electronic" toothbrushes have been

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known to be used with batteries of 1.5 Volts (column 3, lines 40-41 of Sakuma et al) as well as either dry or solar batteries (column 1, lines 18-19 of Suyama). Given that '110 discloses the main idea of connected the n-type semiconductor (4) to a battery (5), the use of well known batteries already recognized as useful in these types of brusthes would be obvious to one of ordinary skill.

Response to Arguments

3. Applicant's arguments filed 22 January 2007 have been fully considered but they are not persuasive. First, the CA teaches an electronic toothbrush of the type which utilizes an n-type semiconductor and which further teaches that a voltage may be superimposed on the semiconductor material. This combination represents the main components of the present invention. The remaining issue essentially comes down to the use of a solar battery (of between .5 and 3 V). With regard to the use of a solar battery, the patent to Suyama discloses that "electronic" toothbrushes conventionally used either a dry battery or a solar battery (column 1, lines 19-20). One would recognize the obvious benefit of using a solar battery, such as long battery life, etc. The other patent (Sakuma et al) is cited to show a teaching of the actual voltage (column 3, lines 40-41), given that the patent to Sakuma et al is silent with regard to the voltage.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Spisich whose telephone number is (571) 272-1278. The examiner can normally be reached on M-Th (5:30-3:00), Alternate Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gladys Corcoran can be reached on (571) 272-1214. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MARK SPISICH
PRIMARY EXAMINER
GROUP 3400

nos